

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	33	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) AND ferment\$5 AND backscatter\$5 AND (suspension or slurry)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:35
L3	2	((monitor\$5 or evaluat\$5 or determin\$5) NEAR10 ferment\$5) SAME (acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME backscatter\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:37
L4	0	(acoustic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME ferment\$5 SAME (bacteria or yeast or fung\$3 or mammal\$5).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:37
L5	0	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME backscatter\$5 SAME (suspension or slurry).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:38
L6	21	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME ferment\$7.clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:38
L7	12	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME ferment\$5 AND reflect\$5.clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:40

## EAST Search History

L8	0	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) AND ((cell NEAR5 growth) SAME (reflect\$5 or backscatter\$5 or speckl\$5) SAME (bacteria or fung\$3 or yeast or mammal\$5 or porcine or feline or canine)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:41
L9	3	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) AND ((cell NEAR5 growth) NEAR10 (reflect\$5 or backscatter\$5 or speckl\$5)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:46
L10	2477	((73/61.75) or (73/64.53) or (73/590) or (73/596) or (73/597) or (73/599)).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/06/24 18:47
S1	799	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME ferment\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/16 10:21
S2	0	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME ferment\$5 AND backscatter\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 10:51
S3	14	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME ferment\$5 AND "73"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 17:45

## EAST Search History

S4	17	(("3779070") or ("3908465") or ("4412451") or ("4696191") or ("4706509") or ("4718269") or ("5058432") or ("5121629") or ("5357964") or ("5594165") or ("5616872") or ("5918272") or ("5920007") or ("5922946") or ("5969237") or ("5987972") or ("6029507")).PN.	USPAT	OR	OFF	2005/03/21 10:16
S5	163	"3908465" "4412451" "4696191" "4706509" "4718269" "5058432" "5121629" "5357964" "5594165" "5616872" "5918272" "5920007" "5922946" "5969237" "5987972" "6029507"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 10:17
S6	123	"3908465" "4412451" "4696191" "4706509" "4718269" "5058432" "5121629" "5357964" "5594165" "5616872" "5918272" "5920007" "5922946" "5969237" "5987972" "6029507"	USPAT	OR	ON	2005/03/21 10:20
S7	0	S6 and ferment\$5	USPAT	OR	ON	2005/08/23 11:00
S8	25	"6,109,098" "6,378,357" "6,401,538" "6,423,007" "6,449,563" "6,481,268" "6,487,894" "6,508,104" "6,598,466" "6,604,408"	USPAT	OR	ON	2005/03/21 10:23
S9	26	"6109098" "6378357" "6401538" "6423007" "6449563" "6481268" "6487894" "6508104" "6598466" "6604408"	USPAT	OR	ON	2005/03/21 10:24
S10	0	S9 and ferment\$5	USPAT	OR	ON	2005/03/21 10:24
S11	100	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME ferment\$5 AND reflect\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:40
S12	10	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME ferment\$5 AND echo	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 11:01

## EAST Search History

S13	0	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME ferment\$5 AND (back NEAR3 scatter\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 11:02
S14	13	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) AND ferment\$5 AND (back NEAR3 scatter\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 11:03
S15	0	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) AND ferment\$5 AND (speckle NEAR3 pattern)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 11:03
S16	29	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) AND ferment\$5 AND backscatter\$5 AND (suspension or slurry)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 13:43
S17	128	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME backscatter\$5 SAME (suspension or slurry)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:38
S18	6	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME (\$5scatter\$5 or speckle) SAME ferment\$7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 18:21

## EAST Search History

S19	1026	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME ferment\$7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:38
S20	50	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME ferment\$7 AND (function NEAR5 time)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 18:22
S21	4777	fermentor	USPAT	OR	ON	2005/08/23 11:00
S22	1	fermentor SAME transducer	USPAT	OR	ON	2005/08/23 12:00
S23	2	fermenter SAME transducer	USPAT	OR	ON	2005/08/23 11:03
S24	4946	fermenter	USPAT	OR	ON	2005/08/23 11:03
S25	53	fermenter SAME ultraso\$5	USPAT	OR	ON	2005/08/23 11:49
S26	0	fermentor SAME ultraso\$%	USPAT	OR	ON	2005/08/23 11:49
S27	2	fermenter SAME transducer	USPAT	OR	ON	2005/08/23 11:50
S28	22	fermentation SAME transducer	USPAT	OR	ON	2005/08/23 12:00
S29	15	("20030087802"   "3774717"   "4152928"   "4384476"   "4497208"   "4825688"   "4848139"   "4907453"   "4959228"   "5017494"   "5056357"   "5060507"   "5739432"   "5837885"   "6109098").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/23 12:07
S30	2	("3952761"   "4442700").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/23 12:12
S31	72	((acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME ferment\$5) AND (slurry or suspension) AND (reflect\$5 or backscatter\$5 or speckl\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/06 10:10

## EAST Search History

S32	64	((acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME ferment\$5) AND (slurry or suspension) AND (reflect\$5 or backscatter\$5 or speckl\$5) AND cell	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 16:39
S33	286	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME ferment\$5 SAME (bacteria or yeast or fung\$3 or mammal\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 14:45
S34	1	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME ferment\$5 SAME (bacteria or yeast or fung\$3 or mammal\$5) AND backscatter	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/16 10:23
S35	1062	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME ferment\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/23 17:22
S36	122	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME ferment\$5 AND (reflect\$7 or backscatter\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/23 17:26
S37	1	("4879011").PN.	USPAT	OR	OFF	2006/06/23 17:26
S38	222	(acoustic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME ferment\$5 SAME (bacteria or yeast or fung\$3 or mammal\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:37

## EAST Search History

S39	11	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME (cell NEAR5 growth) SAME (reflect\$5 or backscatter\$5 or specki\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 16:43
S40	467	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) AND ((cell NEAR5 growth) SAME (reflect\$5 or backscatter\$5 or specki\$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 16:57
S41	60	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) AND ((cell NEAR5 growth) SAME (reflect\$5 or backscatter\$5 or specki\$5) SAME (bacteria or fung\$3 or yeast or mammal\$5 or porcine or feline or canine))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:41
S42	79	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) AND ((cell NEAR5 growth) NEAR10 (reflect\$5 or backscatter\$5 or specki\$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:41
S43	18	(acoustic\$4 or sonic\$4 or sound\$4 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$4 or megasonic\$4 or megasound\$4 or microsonic\$4 or microsound\$4 or macrosound\$4 or macrosonic\$4) SAME ferment\$5 AND "73"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 17:45